PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P36109WO/NCB	FOR FURTHER ACTION as wel	see Form PCT/ISA/220 as, where applicable, item 5 below.				
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)				
PCT/IB2004/003465	08/10/2004 09/10/2003					
Applicant						
JAGOTEC AG						
This International Search Report has bee according to Article 18. A copy is being tra This International Search Report consists		nority and is transmitted to the applicant				
· —	a copy of each prior art document cited in this	report.				
language in which it was filed, uni	international search was carried out on the bas less otherwise indicated under this item.					
this Authority (Hu	le 23.1(b)).	ation of the international application furnished to				
	otide and/or amino acid sequence disclosed	in the international application, see Box No. I.				
4. With regard to the title,	3 (666 2 68 m).					
the text is approved as su	bmitted by the applicant.					
<u> </u>	hed by this Authority to read as follows:					
AEROSOL FORMULATION CO	OMPRISING FORMOTEROL IN SUSP	ENSION				
5. With regard to the abstract,						
the text is approved as su	• • • • • •					
the text has been establis may, within one month fro	hed, according to Rule 38.2(b), by this Authorit om the date of mailing of this international searc	y as It appears in Box No. IV. The applicant th report, submit comments to this Authority.				
6. With regard to the drawings,						
[oublished with the abstract is Figure No					
as suggested by t	•••					
	s Authority, because the applicant failed to sug					
	s Authority, because this figure better characte e published with the abstract.	nzas die invention.				

Rest Available Copy



INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB2004/003465

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

A pharmaceutical aerosol formulation comprising	formoterol fumarate di-hydrate
in suspension, and a steroid in solution, and a	propellant, ethanol, and
optionally a surfactant, wherein the formoterol	fumarate di-hydrate has a water
content of about 4.8 to 4.28 % by weight, more p	particularly about 4.5 to 4.28%.
A method of producing the formulation characters	ized in that the formoterol is
dried beforehand to a water content of 4 8 to 4	

Rest Available Copv

IN RNATIONAL SEARCH REPORT

Intellication No
PCT/IB2004/003465

A. CLASSI IPC 7	FICATION OF SUBJECT MATTER A61K9/72 A61K31/67 A61K31/	00			
According to	o International Patent Classification (IPC) or to both national classific	ation and IPC			
	SEARCHED				
Minimum do IPC 7	ocumentation searched (classification system followed by classification $A61K$	ion symbols)			
	tion searched other than minimum documentation to the extent that s				
	ata base consulted during the International search (name of data baternal), WPI Data, PAJ, BIOSIS, EMBAS		ms used)		
C. DOCUMI	ENTS CONSIDERED TO BE RELEVANT				
Category •	Citation of document, with indication, where appropriate, of the rel	evant passages	Relevant to claim No.		
X,Y	WO 03/074024 A (CHIESI FARMACEUT) DAVIES, REBECCA, JAINE; GANDERTON L) 12 September 2003 (2003-09-12) the whole document page 9, lines 1-12 page 11, lines 16-27 page 14, lines 18-21 page 15, lines 9,10 page 16, lines 1,10-26 page 17, line 2 figure 2; examples 1,3,4 claims 1,3,9,13,16,18,19	N. DAVID:	1-28		
X Furth	ner documents are listed in the continuation of box C.	χ Patent family members ar	e listed in annex.		
Y Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents:					
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published after the international filing date but later than the priority date claimed invention invention cannot be considered to involve an inventive step when the document is taken alone document is combined with one or more other such document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "A" document member of the same patent family					
	actual completion of the international search	Date of mailing of the internation	onal search report		
	April 2005	20/04/2005			
Name and n	nalling address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3018	Authorized officer Luangkhot, N			

3

IN FRNATIONAL SEARCH REPORT

Intel Jonal Application No
PCT/IB2004/003465

		PC1/1B2004/003465
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,Y	US 2002/018753 A1 (BLONDINO FRANK E ET AL) 14 February 2002 (2002-02-14) the whole document paragraphs '0032! - '0034! tables 2,3 claim 19	1–28
Х,Ү	US 6 054 488 A (OLIVER ET AL) 25 April 2000 (2000-04-25) cited in the application the whole document column 3, lines 7-23,45-50 column 4, lines 6-15,22-37 column 6, lines 20-57 column 7, lines 1-57 claims 1,4-8	1-28
Х,Ү	WO 00/48587 A (NOVARTIS AG; NOVARTIS-ERFINDUNGEN VERWALTUNGSGESELLSCHAFT M.B.H; CLARK) 24 August 2000 (2000-08-24) the whole document example 1	1-28
X,Y	US 6 475 467 B1 (KELLER MANFRED ET AL) 5 November 2002 (2002-11-05) cited in the application the whole document column 2, lines 22-59 column 3, lines 33-66 column 4, lines 32-65 column 5, lines 1-5,53-62 column 7, lines 50-53 column 8, lines 59-62 column 9, lines 18,37-63; examples 1,4,6,10-12 claims 24,25	1-28
X X,Y	US 5 709 884 A (TROFAST ET AL) 20 January 1998 (1998-01-20) the whole document column 2, line 56 - column 3, line 9 column 4, lines 17,18 claim 1; example 3	28 1-28
	·	

Available Copy

IN RNATIONAL SEARCH REPORT

Information on patent family members

Intellional Application No PCT/IB2004/003465

					2004/003465
Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 03074024	Α	12-09-2003	EP	1340492 A1	03-09-2003
			ΕP	1415647 A1	06-05-2004
			ĀŪ	2003210370 A1	16-09-2003
•			ΑÜ	2003215597 A1	16-09-2003
			AU	2003222753 A1	16-09-2003
			BR	0303348 A	13-07-2004
			BR	0308274 A	28-12-2004
			BR	0308275 A	28-12-2004
			CA	2477879 A1	12-09-2003
			CA	2477881 A1	12-09-2003
			CA	2477885 A1	12-09-2003
			WO	03074023 A1	12-09-2003
			WO	03074023 A1	
					12-09-2003
			MO	03074025 A2	12-09-2003
			EP	1480615 A1	01-12-2004
			EP	1480616 A1	01-12-2004
			EP	1480617 A2	01-12-2004
			HR	20040751 A2	31-12-2004
			HR	20040752 A2	31-12-2004
			HR	20040753 A2	31-12-2004
			NO	20034874 A	23-12-2003
			ΑU	2003245965 A1	13-05-2004
			BR	0306663 A	19-10-2004
			WO	2004037227 A1	06-05-2004
US 2002018753	A1	14-02-2002	AT	260002 T	15_02_2004
00 5005010/33	ΔŢ	14-06-2002	AT	260093 T	15-03-2004
				250409 T	15-10-2003
			AU	762927 B2	10-07-2003
			AU	4825999 A	05-01-2000
			BR	9912170 A	23-10-2001
			CA	2335303 A1	23-12-1999
			CN	1310611 A ,C	29-08-2001
			CN	1522692 A	25-08-2004
			DE	69911602 D1	30-10-2003
			DE	69911602 T2	01-07-2004
			DE	69915144 D1	01-04-2004
			DE	69915144 T2	09-12-2004
			DK	1306082 T3	01-06-2004
			DK	1085856 T3	08-12-2003
			ΕP	1306082 A1	02-05-2003
			EP	1085856 A2	28-03-2001
			EP ES	1085856 A2 2215153 T3	28-03-2001 01-10-2004
			ES	2215153 T3 2205848 T3	01-10-2004 01-05-2004
			ES ES	2215153 T3 2205848 T3 0102468 A2	01-10-2004 01-05-2004 28-03-2002
			ES HU JP	2215153 T3 2205848 T3	01-10-2004 01-05-2004 28-03-2002 25-06-2002
			ES HU JP NO	2215153 T3 2205848 T3 0102468 A2 2002518100 T 20006466 A	01-10-2004 01-05-2004 28-03-2002 25-06-2002 16-02-2001
			ES ES HU JP NO PL	2215153 T3 2205848 T3 0102468 A2 2002518100 T 20006466 A 345399 A1	01-10-2004 01-05-2004 28-03-2002 25-06-2002 16-02-2001 17-12-2001
			ES ES HU JP NO PL PT	2215153 T3 2205848 T3 0102468 A2 2002518100 T 20006466 A 345399 A1 1306082 T	01-10-2004 01-05-2004 28-03-2002 25-06-2002 16-02-2001 17-12-2001 31-05-2004
			ES HU JP NO PL PT PT	2215153 T3 2205848 T3 0102468 A2 2002518100 T 20006466 A 345399 A1 1306082 T 1085856 T	01-10-2004 01-05-2004 28-03-2002 25-06-2002 16-02-2001 17-12-2001 31-05-2004 30-01-2004
			ES HU JP NO PL PT RU	2215153 T3 2205848 T3 0102468 A2 2002518100 T 20006466 A 345399 A1 1306082 T 1085856 T 2214230 C2	01-10-2004 01-05-2004 28-03-2002 25-06-2002 16-02-2001 17-12-2001 31-05-2004 30-01-2004 20-10-2003
			ES HU JP NO PL PT RU SK	2215153 T3 2205848 T3 0102468 A2 2002518100 T 20006466 A 345399 A1 1306082 T 1085856 T 2214230 C2 19442000 A3	01-10-2004 01-05-2004 28-03-2002 25-06-2002 16-02-2001 17-12-2001 31-05-2004 30-01-2004 20-10-2003 11-09-2001
			ES ES HU JP NO PL PT RU SK WO	2215153 T3 2205848 T3 0102468 A2 2002518100 T 20006466 A 345399 A1 1306082 T 1085856 T 2214230 C2 19442000 A3 9965460 A2	01-10-2004 01-05-2004 28-03-2002 25-06-2002 16-02-2001 17-12-2001 31-05-2004 30-01-2004 20-10-2003 11-09-2001 23-12-1999
			ES HU JP NO PT PT RU WO US	2215153 T3 2205848 T3 0102468 A2 2002518100 T 20006466 A 345399 A1 1306082 T 1085856 T 2214230 C2 19442000 A3 9965460 A2 2003077230 A1	01-10-2004 01-05-2004 28-03-2002 25-06-2002 16-02-2001 17-12-2001 31-05-2004 30-01-2004 20-10-2003 11-09-2001 23-12-1999 24-04-2003
			ES ES HU JP NO PL PT RU SK WO	2215153 T3 2205848 T3 0102468 A2 2002518100 T 20006466 A 345399 A1 1306082 T 1085856 T 2214230 C2 19442000 A3 9965460 A2	01-10-2004 01-05-2004 28-03-2002 25-06-2002 16-02-2001 17-12-2001 31-05-2004 30-01-2004 20-10-2003 11-09-2001 23-12-1999
US 6054488	A	 25-04-2000	ES HU JP NO PT PT RU WO US	2215153 T3 2205848 T3 0102468 A2 2002518100 T 20006466 A 345399 A1 1306082 T 1085856 T 2214230 C2 19442000 A3 9965460 A2 2003077230 A1	01-10-2004 01-05-2004 28-03-2002 25-06-2002 16-02-2001 17-12-2001 31-05-2004 30-01-2004 20-10-2003 11-09-2001 23-12-1999 24-04-2003 13-06-2002
US 6054488	A	25-04-2000	ES ES HU JP NO PT PT RU SK WO US ZA	2215153 T3 2205848 T3 0102468 A2 2002518100 T 20006466 A 345399 A1 1306082 T 1085856 T 2214230 C2 19442000 A3 9965460 A2 2003077230 A1 200007455 A	01-10-2004 01-05-2004 28-03-2002 25-06-2002 16-02-2001 17-12-2001 31-05-2004 30-01-2004 20-10-2003 11-09-2001 23-12-1999 24-04-2003 13-06-2002

IN TRNATIONAL SEARCH REPORT

Information on patent family members

Inte. .ional Application No PCT/IB2004/003465

			1017182	2004/003465
Patent document cited in search report	Publication date		Patent family member(s)	Publication date
US 6054488 A		CA DE EP EP ID JP NO NZ WO ZA	2257841 A1 69730723 D1 1400239 A1 0934057 A1 19520 A 2000513340 T 985720 A 333202 A 9747286 A1 9704546 A	18-12-1997 21-10-2004 24-03-2004 11-08-1999 16-07-1998 10-10-2000 11-02-1999 23-06-2000 18-12-1997 23-11-1998
WO 0048587 A	24-08-2000	AT AU AU BR CA CN CZ DE DK WO EP ESU JP NO NZ PL SK TR US ZA	266393 T 758999 B2 2911500 A 0008276 A 2368537 A1 1339965 A 20012976 A3 60010662 D1 1152753 T3 0048587 A1 1152753 A1 2220411 T3 0200852 A2 29437 A 2002537249 T 20013987 A 513526 A 349856 A1 1152753 T 1152753 T 1152753 T1 11842001 A3 200102110 T2 2004101487 A1 2002103260 A1 200105391 A	15-05-2004 03-04-2003 04-09-2000 06-11-2001 24-08-2000 13-03-2002 14-11-2001 17-06-2004 16-08-2004 24-08-2000 14-11-2001 16-12-2004 28-08-2002 30-08-2001 05-11-2002 16-08-2001 30-01-2004 23-09-2002 30-09-2004 31-10-2004 03-12-2001 22-10-2001 27-05-2004 01-08-2002 21-06-2002
US 6475467 B1	05-11-2002	AT AU CA WO CN DE DK EP ES JP NO NZ PT ZA	234604 T 749697 B2 4893999 A 2338680 A1 0007567 A1 1315852 A ,C 59904648 D1 1102579 T3 1102579 A1 2193726 T3 2002522374 T 20010531 A 509489 A 1102579 T 200100569 A	15-04-2003 04-07-2002 28-02-2000 17-02-2000 17-02-2000 03-10-2001 24-04-2003 14-07-2003 30-05-2001 01-11-2003 23-07-2002 31-01-2001 25-10-2002 31-07-2003 30-07-2001
US 5709884 A	20-01-1998	AT AU AU BR CA	199828 T 681186 B2 7626494 A 9407320 A 2170394 A1	15-04-2001 21-08-1997 21-03-1995 16-04-1996 02-03-1995